

Washington Vineyard Acreage Report

2011

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Compiled by USDA/NATIONAL AGRICULTURAL STATISTICS SERVICE
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Some Notes About These Data

It is a large and challenging task to compile information detailed in this publication. This project would not have been possible without the assistance and support of many people and organizations. We would like to thank all of the fruit organizations in the state that supported the survey work and helped to publicize the importance of the work. Thanks go to Dan Kelly at the Washington Growers Clearinghouse, Lindsay Buckner of Tree Top Inc., and Todd Fryhover of the Washington Apple Commission for their support, assistance and feedback. We would like to thank Vicky Scharlau and Susan Pheasant for feedback, assistance, and their efforts to promote this project. Special thanks go to Perry Beale for his assistance and cooperation to use the Washington State Department of Agriculture's geographic information system (GIS) layer to facilitate the area survey portion of this project.

Most importantly we would like to thank the tree fruit and grape growers who took the time from their busy schedules to provide the data compiled in this publication. This project would not have been possible without their cooperation.

The 2011 Grape and Tree Fruit Acreage Inventory by Variety Study was designed to measure the details about the Washington Grape and Tree Fruit industries. This is the sixth time a survey of this type has been conducted in Washington. Previous surveys were conducted in 1948-49, 1986, 1993, 2001, and 2006. Comparisons to previous data are shown in the publication. Data may not be comparable due to changes in survey methodology. Statistics regarding grapes will be released in a separate publication. The following are some notes regarding the tree fruit data.

The survey was supported by all of the major fruit organizations and publicized in many newsletters and industry publications. Orchardists were sent pre-survey letters, endorsed by the coalition of Northwest tree fruit organizations, explaining the intent and need to report. An example of the pre-survey letter is included in the appendix of this report.

In addition to the existing list of orchard operations, several lists of fruit producers were obtained and matched to the existing list to maximize the coverage of the list portion of the survey. Lists from commissions, associations, county assessors, marketing orders, and others were reviewed for this effort. The list portion of the survey included all those operations thought to have five or more acres of tree fruit or one or more acres of grapes. The list sample included over 5,200 operations. The modes of data collection included mail, telephone, personal interview, and online Electronic Data Reporting. Operations were given an opportunity to respond by mail beginning in December 2010. A copy of the questionnaire and respondent booklet are included in this report. The beginning date of data collection was December 1, 2010. The median date of data collection was February 15. Follow-up mailings were conducted and all medium and most smaller operations were contacted by telephone. Large operations, defined as those thought to have greater than 500 acres of fruit or those with significant amounts of less prevalent fruit, were followed up with face-to-face interviews. When possible, efforts were made to use grower electronic records. Over 23,000 individual blocks of fruit information from approximately 2,200 growers who reported one or more blocks of tree fruit or grapes were tabulated. Most of the nonrespondents were smaller-sized operations as less effort was made to follow-up with growers expected to report very small fruit acreages.

To evaluate the completeness of the list portion of the survey an area study was conducted. One hundred square miles, or sections, of land containing tree fruit or grapes were statistically sampled and screened for tree fruit or grape producers. Orchard or vineyards operators in the chosen sections were recorded and compared to the names in the list portion of the sample. Those area records not present on the list represent the incompleteness of the list portion of the survey. The list portion of the survey covered just over 95 percent of the total acreage. Much of the acreage missed by the list portion of the survey had recently changed ownership or management. Most of the operations not present on the list were very small operations.

There were several measures employed to assure data quality. Telephone data collection was conducted using a computerized survey instrument. The survey instrument included prompts to the interviewer when unusual situations were encountered. An example would be an extremely high or low planting density. All records, including those collected by mail and face-to-face interviews, were reviewed within a computerized interactive editing system. This process ensured that records were internally consistent (e.g. acres in blocks of fruit add up to total fruit acres reported). Some data errors can best be identified by reviewing all records meeting a particular criterion. For example, a review of all Merlot grape blocks planted in the past five years, sorted by vines per acre, would highlight blocks with usually high or low planting densities. The data in this survey were reviewed in an interactive analysis system that would facilitate these types of reviews.

A small number of operations were able to provide only partial block level information. In these cases, the averages from the reported data were used to complete the block level data. For example, a partially responding ten acre block of Chardonnay grapes planted in 2006 would have been given the vines per acre average from responding blocks of the same characteristics to estimate the total number of vines for the block.

Block level data from responding vineyards represented approximately 87 percent of the published totals for total grapes. The survey data totals were analyzed by American Viticultural Area (AVA) for reasonableness. Also, grape acreage totals from county assessor offices, data from the 2007 Census of Agriculture, the previous grape acreage survey, vineyard data from WSDA's GIS layer, and other industry data at the AVA level were considered in setting grape acreage "targets" at the state level and by AVA.

Once the targets were set, the adjustments were carried through to each individual responding block of data. The same adjustment process utilized in the Census of Agriculture, known as calibration, where the weights of responding blocks of fruit are adjusted within tolerance ranges of the targets was used. Before adjustment, responding wine grape blocks had weights of one; after adjustment the average wine grape weight was 1.05 with a maximum weight of 2.94. This means, for example, that a reported ten acre block of Chardonnay grapes containing 8250 vines might have received a weight of, say, 1.2. After weighting, the block of fruit would have contributed 12 acres and 9,900 vines to the published totals.

This report includes data for the two newest AVA's – Snipes Mountain AVA and Lake Chelan AVA. A few areas of the state are not included in an AVA. For example, wine grape growing areas near the Columbia Gorge AVA and in the Stevens county area. The total acreage outside an established AVA is relatively small and these areas were collapsed into the Columbia Valley AVA.

The Walla Walla and Columbia Gorge AVA's include parts of Oregon. The data in this report detail the Washington portions of these AVA's. For Oregon data see the companion publication on NASS's , Oregon Field Office website.

Data included in "other varieties" include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations. Almost certainly, some acres of the published varieties are included in this other category when the respondent did not designate the variety. The red varieties of wine grapes reported but not published include: Campbell Early, Carmenere, Cinsault, Cournoise, Dolcetto, Gamay Beaujolais, Gamay Noir, Leon Milot, Marechal Foch, Nebbiolo, Souzao, Tinto Cao, Touriga, and Tinta Madeira, . The white varieties of wine grapes reported but not published include: Aligote, Aurore, Chasselas, Madeline Angevine, Madeline Sylvaner, Mueller-Thurgau, Muscat of Alexandria, Muscat Ottonel, Orange Muscat, Pinot Blanc, and Siegerrebe.

Wine Grapes: Acreage, by Variety, Historic Comparisons, Washington, January 1, 1993-2011

Variety	1993 (acres)	1999 (acres)	2002 (acres)	2006 (acres)	2011 (acres)
White varieties.....					
Chardonnay.....	2,600	6,100	6,640	5,992	7,654
Chenin Blanc.....	600	400	450	233	207
Gewurtztraminer.....	300	400	670	632	775
Muscat Canelli.....	-	110	100	146	177
Pinot Gris.....	-	150	330	488	1,576
Rousanne.....	-	-	-	-	65
Sauvignon Blanc.....	800	700	710	993	1,173
Semillon.....	700	600	550	235	222
Viognier.....	-	60	230	362	390
White Riesling.....	2,000	1,900	2,200	4,404	6,320
Other white.....	100	80	120	164	293
Total white varieties.....	7,100	10,500	12,000	13,649	18,851
Red varieties					
Barbera.....	-	-	-	-	70
Cabernet Franc.....	150	700	750	1,157	972
Cabernet Sauvignon.....	1,400	5,000	6,050	5,959	10,293
Grenache.....	-	-	-	145	261
Lemberger.....	150	150	230	79	73
Malbec.....	-	50	90	196	378
Merlot.....	1,800	5,600	5,980	5,853	8,235
Mouverdre.....	-	-	-	96	165
Petit Verdot.....	-	-	-	131	301
Pinot Noir.....	250	200	290	314	307
Sangiovese.....	-	100	220	206	185
Syrah.....	-	1,500	2,100	2,831	3,103
Tempranillo.....	-	-	-	-	94
Zinfandel.....	-	50	70	67	89
Other red	250	150	120	-	472
Total red varieties.....	4,000	13,500	16,000	17,351	24,998
All varieties.....	11,100	24,000	28,000	31,000	43,849

Wine Grapes: Acres by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Columbia Gorge	Columbia Valley	Horse Heaven Hills	Lake Chelan	Puget Sound	Rattlesnake Hills
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
White varieties						
Chardonnay.....	82	1,331	1,771	13	-	118
Chenin Blanc.....	-	-	-	-	-	8
Gewurtztraminer.....	73	96	-	28	-	-
Muscat Canelli.....	-	71	-	-	-	-
Pinot Gris.....	68	248	138	12	9	46
Rousanne.....	-	8	18	-	-	6
Sauvignon Blanc.....	-	171	492	3	-	-
Semillon.....	-	21	-	-	-	7
Viognier.....	-	62	88	15	-	27
White Riesling.....	22	1,140	875	43	4	451
Other white.....	-	9	2	-	46	13
Total white varieties.....	251	3,158	3,606	121	70	706
Red varieties						
Barbera.....	-	-	18	-	-	-
Cabernet Franc.....	-	174	264	4	-	65
Cabernet Sauvignon.....	-	1,749	3,320	7	-	292
Grenache.....	-	17	127	-	-	-
Lemberger.....	-	-	20	-	-	-
Malbec.....	3	59	104	3	-	13
Merlot.....	20	1,449	2,047	-	-	367
Mouverdre.....	-	18	50	-	-	3
Petit Verdot.....	-	25	86	-	-	19
Pinot Noir.....	42	35	-	42	83	-
Sangiovese.....	-	29	34	5	-	6
Syrah.....	-	638	756	36	-	76
Tempranillo.....	5	6	-	-	-	5
Zinfandel.....	-	-	16	-	-	14
Other red.....	35	62	123	-	19	18
Total red varieties.....	143	4,311	6,978	125	109	892
All varieties.....	394	7,469	10,584	247	178	1,599

Wine Grapes: Acres by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Red Mountain	Snipes Mountain	Wahluke Slope	Walla Walla Valley	Yakima Valley	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
White varieties						
Chardonnay.....	-	148	984	27	3,157	7,654
Chenin Blanc.....	-	-	18	-	54	207
Gewurtztraminer.....	-	-	120	-	389	775
Muscat Canelli.....	-	-	-	-	73	177
Pinot Gris.....	-	-	-	-	855	1,576
Rousanne.....	-	-	-	-	22	65
Sauvignon Blanc	18	-	41	-	421	1,173
Semillon.....	20	-	-	19	99	222
Viognier	10	-	24	20	111	390
White Riesling	-	70	851	-	2,858	6,320
Other white	-	-	21	-	31	293
Total white varieties.....	92	325	2,218	235	8,070	18,851
Red varieties						
Barbera.....	-	-	18	-	5	70
Cabernet Franc	42	-	138	76	197	972
Cabernet Sauvignon.....	672	142	1,900	524	1,678	10,293
Grenache.....	8	-	41	-	62	261
Lemberger.....	-	-	-	-	26	73
Malbec.....	19	-	107	18	47	378
Merlot	184	111	1,540	201	2,298	8,235
Mouverdre.....	12	-	49	-	32	165
Petit Verdot.....	19	-	86	33	34	301
Pinot Noir.....	-	-	-	-	78	307
Sangiovese.....	12	-	36	12	50	185
Syrah.....	173	78	427	165	728	3,103
Tempranillo.....	-	-	17	13	35	94
Zinfandel.....	-	-	-	-	12	89
Other red	22	-	49	18	103	472
Total red varieties.....	1,182	380	4,427	1,069	5,382	24,998
All varieties.....	1,273	704	6,645	1,304	13,452	43,849

Wine Grapes: Vines by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Columbia Gorge	Columbia Valley	Horse Heaven Hills	Lake Chelan	Puget Sound	Rattlesnake Hills
	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
White varieties						
Chardonnay.....	53,414	1,191,207	1,596,600	14,855	-	106,209
Chenin Blanc.....	-	-	-	-	-	9,132
Gewurtztraminer.....	45,613	76,304	-	35,359	-	-
Muscat Canelli.....	-	45,545	-	-	-	-
Pinot Gris.....	41,425	244,615	134,886	14,674	13,739	43,726
Rousanne.....	-	11,208	15,355	-	-	5,057
Sauvignon Blanc.....	-	117,967	393,836	3,012	100	-
Semillon.....	-	18,016	-	-	-	7,830
Viognier.....	-	51,260	73,660	16,015	-	22,998
White Riesling.....	27,969	870,074	815,970	55,157	4,474	430,860
Other white.....	-	12,350	1,485	-	66,841	13,591
Total white varieties.....	175,492	2,639,635	3,199,662	145,825	96,164	670,092
Red varieties						
Barbera.....	-	-	16,062	-	-	-
Cabernet Franc.....	-	174,030	234,858	3,704	-	67,251
Cabernet Sauvignon.....	-	1,466,031	2,950,215	7,794	-	280,020
Grenache.....	-	14,402	130,998	-	-	-
Lemberger.....	-	-	16,189	-	-	-
Malbec.....	3,106	57,159	104,011	2,967	-	14,487
Merlot.....	14,252	1,423,713	1,725,973	-	-	386,793
Mouverdre.....	-	16,934	44,351	-	-	2,821
Petit Verdot.....	-	21,494	87,856	-	-	18,865
Pinot Noir.....	45,513	36,594	-	48,665	114,514	-
Sangiovese.....	-	25,936	38,878	5,509	-	5,629
Syrah.....	-	576,465	675,493	42,923	-	71,303
Tempranillo.....	5,101	4,568	-	-	-	4,845
Zinfandel.....	-	-	12,909	-	-	17,799
Other red.....	31,238	71,923	110,226	-	27,089	15,977
Total red varieties.....	132,006	3,930,034	6,159,307	146,986	148,246	897,182
All varieties.....	307,498	6,569,669	9,358,969	292,811	244,410	1,567,274

Wine Grapes: Vines by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Red Mountain	Snipes Mountain	Wahluke Slope	Walla Walla Valley	Yakima Valley	Washington
	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
White varieties						
Chardonnay.....	-	65,988	966,909	23,812	2,596,547	6,635,887
Chenin Blanc.....	-	-	17,487	-	31,886	151,278
Gewurtztraminer.....	-	-	145,588	-	328,111	682,512
Muscat Canelli.....	-	-	-	-	66,523	141,587
Pinot Gris.....	-	-	-	-	757,987	1,408,057
Rousanne.....	-	-	-	-	20,613	61,028
Sauvignon Blanc.....	17,370	-	37,163	-	349,969	942,714
Semillon.....	17,810	-	-	20,709	67,372	175,206
Viognier.....	12,218	-	22,664	19,414	97,894	324,952
White Riesling.....	-	22,010	867,750	-	2,454,371	5,554,693
Other white.....	-	-	19,354	-	26,272	305,115
Total white varieties.....	78,226	119,406	2,230,971	230,011	6,797,545	16,383,029
Red varieties						
Barbera.....	-	-	16,246	-	3,453	65,840
Cabernet Franc.....	47,006	-	121,528	73,997	190,555	916,850
Cabernet Sauvignon.....	790,249	45,003	1,864,767	523,528	1,498,814	9,432,767
Grenache.....	9,023	-	40,333	-	57,878	259,207
Lemberger.....	-	-	-	-	18,787	61,576
Malbec.....	24,081	-	101,340	19,316	40,725	368,450
Merlot.....	192,270	35,433	1,457,597	203,372	1,985,260	7,447,910
Mouverdre.....	12,962	-	46,693	-	32,284	156,915
Petit Verdot.....	22,738	-	83,103	29,712	33,341	297,109
Pinot Noir.....	-	-	-	-	63,542	326,523
Sangiovese.....	17,970	-	47,950	10,972	41,129	193,973
Syrah.....	226,741	25,043	402,155	154,864	654,537	2,853,156
Tempranillo.....	-	-	15,201	15,209	33,896	93,313
Zinfandel.....	-	-	-	-	10,258	81,264
Other red.....	25,855	-	45,329	17,697	86,175	440,765
Total red varieties.....	1,389,786	117,337	4,262,022	1,062,078	4,750,634	22,995,618
All varieties.....	1,468,012	236,743	6,492,993	1,292,089	11,548,179	39,378,647

Wine Grapes: Vines per Acre by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Columbia Gorge	Columbia Valley	Horse Heaven Hills	Lake Chelan	Puget Sound	Rattlesnake Hills
	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)
White varieties						
Chardonnay.....	654	895	901	1,161	-	899
Chenin Blanc.....	-	-	-	-	-	1,087
Gewurtztraminer.....	627	796	-	1,263	-	-
Muscat Canelli.....	-	643	-	-	-	-
Pinot Gris.....	614	986	977	1,213	1,598	959
Rousanne.....	-	1,384	853	-	-	803
Sauvignon Blanc.....	-	690	800	913	500	-
Semillon.....	-	866	-	-	-	1,119
Viognier.....	-	832	839	1,054	-	861
White Riesling.....	1,249	763	933	1,289	1,017	955
Other white.....	-	1,342	874	-	1,450	1,079
Total white varieties.....	700	836	887	1,203	1,382	949
Red varieties						
Barbera.....	-	-	883	-	-	-
Cabernet Franc.....	-	1,000	891	950	-	1,028
Cabernet Sauvignon.....	-	838	889	1,098	-	958
Grenache.....	-	868	1,036	-	-	-
Lemberger.....	-	-	794	-	-	-
Malbec.....	1,035	967	997	1,187	-	1,081
Merlot.....	709	983	843	-	-	1,053
Mouverdre.....	-	941	883	-	-	882
Petit Verdot.....	-	870	1,024	-	-	1,020
Pinot Noir.....	1,094	1,052	-	1,173	1,376	-
Sangiovese.....	-	888	1,140	1,080	-	880
Syrah.....	-	904	893	1,189	-	937
Tempranillo.....	1,020	801	-	-	-	1,031
Zinfandel.....	-	-	807	-	-	1,262
Other red.....	885	1,169	893	-	1,418	868
Total red varieties.....	921	912	883	1,172	1,366	1,005
All varieties.....	780	880	884	1,187	1,372	980

Wine Grapes: Vines per Acre by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Red Mountain	Snipes Mountain	Wahluke Slope	Walla Walla Valley	Yakima Valley	Washington
	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)
White varieties						
Chardonnay.....	-	446	983	892	823	867
Chenin Blanc.....	-	-	972	-	587	732
Gewurtztraminer.....	-	-	1,218	-	843	881
Muscat Canelli.....	-	-	-	-	906	799
Pinot Gris.....	-	-	-	-	887	894
Rousanne.....	-	-	-	-	937	935
Sauvignon Blanc	949	-	900	-	831	803
Semillon.....	913	-	-	1,084	682	790
Viognier	1,273	-	960	996	882	833
White Riesling	-	314	1,020	-	859	879
Other white	-	-	926	-	856	1,043
Total white varieties.....	851	368	1,006	979	842	869
Red varieties						
Barbera.....	-	-	913	-	767	938
Cabernet Franc	1,117	-	881	979	966	943
Cabernet Sauvignon.....	1,176	318	981	999	893	916
Grenache.....	1,203	-	993	-	940	992
Lemberger.....	-	-	-	-	737	848
Malbec.....	1,274	-	949	1,073	874	975
Merlot	1,046	318	947	1,010	864	904
Mouverdre.....	1,098	-	951	-	1,012	952
Petit Verdot.....	1,216	-	965	909	981	989
Pinot Noir.....	-	-	-	-	818	1,063
Sangiovese.....	1,473	-	1,328	914	831	1,051
Syrah.....	1,312	322	941	941	899	920
Tempranillo.....	-	-	905	1,170	982	990
Zinfandel.....	-	-	-	-	877	909
Other red	1,197	-	927	1,006	835	934
Total red varieties.....	1,176	309	963	994	883	920
All varieties.....	1,153	336	977	991	858	898

Wine Grapes: Acres by Age, by Variety, Washington, 2011

Variety	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
White varieties								
Chardonnay.....	1,779	877	3,199	222	588	572	417	7,654
Chenin Blanc.....	198	-	-	-	-	-	-	207
Gewurtztraminer.....	204	-	292	161	83	17	-	775
Muscat Canelli.....	51	-	-	110	-	-	-	177
Pinot Gris.....	26	24	359	297	675	195	-	1,576
Rousanne.....	-	-	16	16	7	24	-	65
Sauvignon Blanc.....	525	-	182	232	121	79	-	1,173
Semillon.....	144	-	37	-	11	15	-	222
Viognier.....	-	10	133	159	44	43	-	390
White Riesling.....	1,633	123	494	2,031	1,438	521	82	6,320
Other white.....	15	69	134	49	11	13	-	293
Total white varieties.....	4,578	1,145	4,850	3,286	2,983	1,490	519	18,851
Red varieties								
Barbera.....	-	-	17	36	12	-	-	70
Cabernet Franc.....	81	103	448	214	92	22	14	972
Cabernet Sauvignon.....	1,710	625	3,866	1,178	1,400	1,094	420	10,293
Grenache.....	-	-	11	44	99	56	-	261
Lemberger.....	20	-	38	-	-	-	-	73
Malbec.....	3	21	70	110	84	54	36	378
Merlot.....	1,547	1,654	2,369	811	966	770	119	8,235
Mouverdre.....	-	-	-	69	57	34	-	165
Petit Verdot.....	-	8	11	151	101	28	-	301
Pinot Noir.....	91	-	70	81	34	16	-	307
Sangiovese.....	-	14	66	65	24	15	-	185
Syrah.....	132	97	1,566	975	255	68	10	3,103
Tempranillo.....	-	10	-	-	27	22	-	94
Zinfandel.....	-	-	23	41	16	-	-	89
Other red.....	38	7	34	170	149	69	7	472
Total red varieties.....	3,684	2,555	8,605	3,974	3,313	2,254	613	24,998
All varieties.....	8,263	3,699	13,455	7,260	6,297	3,744	1,133	43,849

Wine Grapes: Vines by Age, by Variety, Washington, 2011

Variety	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
White varieties								
Chardonnay.....	1,285,856	699,976	2,881,998	171,712	576,850	570,263	449,232	6,635,887
Chenin Blanc.....	141,037	-	-	-	-	-	-	151,278
Gewurtztraminer.....	154,880	-	253,712	135,811	105,367	19,031	-	682,512
Muscat Canelli.....	32,043	-	-	90,575	-	-	-	141,587
Pinot Gris.....	19,526	18,363	265,465	287,737	629,582	187,202	-	1,408,057
Rousanne.....	-	-	12,578	18,602	6,292	21,723	-	61,028
Sauvignon Blanc.....	371,895	-	179,135	188,673	97,427	77,346	-	942,714
Semillon.....	97,730	-	34,907	-	9,617	18,367	-	175,206
Viognier.....	-	6,594	114,397	117,849	40,571	44,330	-	324,952
White Riesling.....	1,193,351	89,357	435,968	1,921,752	1,373,267	459,558	81,440	5,554,693
Other white.....	19,233	70,541	142,046	50,198	10,561	12,161	-	305,115
Total white varieties.....	3,317,973	918,782	4,325,046	2,991,501	2,856,644	1,423,723	549,360	16,383,029
Red varieties								
Barbera.....	-	-	13,917	34,412	12,366	-	-	65,840
Cabernet Franc.....	53,036	97,713	431,456	194,601	96,649	24,905	18,490	916,850
Cabernet Sauvignon.....	1,228,998	555,926	3,492,841	1,188,812	1,408,699	1,155,738	401,753	9,432,767
Grenache.....	-	-	9,434	37,144	108,301	57,801	-	259,207
Lemberger.....	14,639	-	32,017	-	-	-	-	61,576
Malbec.....	2,469	16,448	68,411	96,330	92,692	57,797	34,303	368,450
Merlot.....	1,260,997	1,409,121	2,160,824	741,727	983,921	764,547	126,773	7,447,910
Mouverdre.....	-	-	-	62,367	55,787	34,752	-	156,915
Petit Verdot.....	-	5,282	9,956	142,495	104,611	31,375	-	297,109
Pinot Noir.....	72,252	-	72,825	121,697	34,131	15,661	-	326,523
Sangiovese.....	-	11,033	63,727	72,470	27,674	17,869	-	193,973
Syrah.....	112,504	70,720	1,330,555	921,705	332,331	73,667	11,674	2,853,156
Tempranillo.....	-	9,291	-	-	24,388	22,299	-	93,313
Zinfandel.....	-	-	21,195	31,503	16,003	-	-	81,264
Other red.....	29,964	4,348	28,473	150,882	146,800	74,562	5,736	440,765
Total red varieties.....	2,834,944	2,193,578	7,752,199	3,826,885	3,444,353	2,338,356	605,303	22,995,618
All varieties.....	6,152,917	3,112,360	12,077,245	6,818,386	6,300,997	3,762,079	1,154,663	39,378,647

Wine Grapes: Vines per Acre by Age, by Variety, Washington, 2011

Variety	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(vines per acre)							
White varieties								
Chardonnay.....	723	798	901	773	982	996	1,078	867
Chenin Blanc.....	713	-	-	-	-	-	-	732
Gewurtztraminer.....	759	-	870	842	1,266	1,094	-	881
Muscat Canelli.....	626	-	-	825	-	-	-	799
Pinot Gris.....	766	759	740	969	933	958	-	894
Rousanne.....	-	-	801	1,155	899	905	-	935
Sauvignon Blanc.....	708	-	984	814	805	984	-	803
Semillon.....	677	-	941	-	859	1,258	-	790
Viognier.....	-	666	863	740	933	1,026	-	833
White Riesling.....	731	726	883	946	955	882	996	879
Other white.....	1,249	1,016	1,057	1,024	935	943	-	1,043
Total white varieties.....	725	803	892	910	958	956	1,058	869
Red varieties								
Barbera.....	-	-	843	953	1,075	-	-	938
Cabernet Franc.....	657	953	962	911	1,053	1,153	1,350	943
Cabernet Sauvignon.....	719	890	903	1,009	1,006	1,056	957	916
Grenache.....	-	-	858	837	1,100	1,041	-	992
Lemberger.....	743	-	836	-	-	-	-	848
Malbec.....	796	802	975	878	1,098	1,076	948	975
Merlot.....	815	852	912	915	1,018	993	1,066	904
Mouverdre.....	-	-	-	908	984	1,025	-	952
Petit Verdot.....	-	704	948	943	1,039	1,141	-	989
Pinot Noir.....	791	-	1,045	1,508	1,007	1,010	-	1,063
Sangiovese.....	-	805	960	1,124	1,163	1,176	-	1,051
Syrah.....	851	731	850	946	1,305	1,080	1,167	920
Tempranillo.....	-	920	-	-	900	1,028	-	990
Zinfandel.....	-	-	910	766	1,032	-	-	909
Other red.....	799	649	847	890	987	1,082	856	934
Total red varieties.....	769	859	901	963	1,040	1,038	987	920
All varieties.....	745	841	898	939	1,001	1,005	1,020	898

Wine Grapes: Acres by Age and American Viticultural Area, Washington, 2011

American Viticultural Area (AVA)	Year planted							Total
	Prior to 1991	1991- 1995	1996- 2000	2001- 2005	2006- 2007	2008- 2009	2010	
Columbia Gorge	45	30	52	233	20	-	-	394
Columbia Valley	1,816	661	2,587	855	776	668	106	7,469
Horse Heaven Hills.....	1,795	727	2,929	1,435	2,208	1,025	465	10,584
Lake Chelan	-	-	30	161	47	9	-	247
Puget Sound.....	26	6	65	51	17	13	1	178
Rattlesnake Hills.....	514	224	256	344	67	191	2	1,599
Red Mountain	191	-	276	204	231	262	-	1,273
Snipes Mountain.....	431	-	218	-	-	-	-	704
Wahluke Slope	736	293	2,157	1,308	1,126	831	195	6,645
Walla Walla Valley.....	44	111	690	235	106	-	-	1,304
Yakima Valley.....	2,664	1,556	4,193	2,389	1,702	706	243	13,452
Washington	8,263	3,699	13,455	7,260	6,297	3,744	1,133	43,849

Wine Grapes: Vines by Age and American Viticultural Area, Washington, 2011

American Viticultural Area (AVA)	Year planted							Total
	Prior to 1991	1991- 1995	1996- 2000	2001- 2005	2006- 2007	2008- 2009	2010	
Columbia Gorge	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
Columbia Gorge	41,596	24,538	30,916	174,903	22,327	-	-	307,498
Columbia Valley	1,285,731	630,492	2,274,533	788,629	826,283	664,377	99,624	6,569,669
Horse Heaven Hills.....	1,308,489	579,209	2,601,389	1,205,466	2,209,640	1,005,590	449,186	9,358,969
Lake Chelan	-	-	38,693	196,644	48,328	9,146	-	292,811
Puget Sound.....	39,213	10,089	76,365	92,876	14,694	10,362	811	244,410
Rattlesnake Hills.....	506,555	211,210	246,057	350,143	63,916	187,208	2,185	1,567,274
Red Mountain	152,764	-	255,944	211,449	390,073	324,614	-	1,468,012
Snipes Mountain.....	108,559	-	109,765	-	-	-	-	236,743
Wahluke Slope	576,910	250,712	1,981,485	1,413,359	1,168,627	866,759	235,141	6,492,993
Walla Walla Valley.....	31,352	94,870	692,646	215,970	107,633	-	-	1,292,089
Yakima Valley.....	2,101,748	1,195,730	3,769,452	2,157,791	1,449,476	651,088	222,894	11,548,179
Washington	6,152,917	3,112,360	12,077,245	6,818,386	6,300,997	3,762,079	1,154,663	39,378,647

Wine Grapes: Vines per Acre by Age and American Viticultural Area, Washington, 2011

American Viticultural Area (AVA)	Year planted							Total
	Prior to 1991	1991- 1995	1996- 2000	2001- 2005	2006- 2007	2008- 2009	2010	
	(vines per acre)							
Columbia Gorge	916	807	596	750	1,145	-	-	780
Columbia Valley	708	954	879	923	1,065	995	944	880
Horse Heaven Hills.....	729	796	888	840	1,001	981	965	884
Lake Chelan	-	-	1,281	1,221	1,039	1,028	-	1,187
Puget Sound.....	1,514	1,770	1,171	1,825	869	810	1,159	1,372
Rattlesnake Hills.....	985	942	960	1,018	961	979	950	980
Red Mountain	802	-	926	1,038	1,692	1,240	-	1,153
Snipes Mountain.....	252	-	504	-	-	-	-	336
Wahluke Slope	784	855	919	1,081	1,038	1,043	1,206	977
Walla Walla Valley.....	706	858	1,003	918	1,020	-	-	991
Yakima Valley.....	789	769	899	903	852	922	918	858
Washington	745	841	898	939	1,001	1,005	1,020	898

Juice Grapes: Acres, Vines, Vines per Acre by Year Planted, Washington, 2011

Variety	Year Planted							
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	Total
Concord.....acres	16,757	1,746	2,041	2,470	-	360	450	25,068
vines	11,551,438	1,223,291	1,566,106	1,947,398	-	317,016	396,460	18,105,711
vines per acre	689	701	768	788	-	881	880	722
Niagara.....acres	557	75	302	162	-	-	-	1,101
vines	382,677	46,047	233,900	118,394	-	-	-	784,998
vines per acre	688	618	774	733	-	-	-	713
Totalacres	17,314	1,821	2,343	2,632	1,250	360	450	26,169
vines	11,934,115	1,269,338	1,800,006	2,065,792	1,107,982	317,016	396,460	18,890,709
vines per acre	689	697	768	785	886	881	880	722

Grapes: Organic and Transition Acres, by Variety, Washington, January 1, 2011

Variety	Certified (acres)	Transition (acres)
Wine Grapes		
White Varieties:		
Chardonnay.....	173	-
Gewurzaminer.....	15	-
Other white varieties ¹	229	-
Total white varieties.....	417	-
Red Varieties:		
Cabernet Franc	12	-
Cabernet Sauvignon.....	187	-
Malbec.....	8	-
Merlot	126	-
Petit Verdot.....	13	-
Pinot Noir.....	10	-
Syrah	63	-
Other red varieties ¹	14	-
Total red varieties.....	433	-
All Wine Grapes	850	70
Juice Grapes		
Concord.....	1,513	57
Niagara.....	89	-
All Juice Grapes	1,602	57

¹ Other varieties include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations.

Intentions for 2011 and the Next Five Years

Grape producers were asked for their intentions to topwork, remove, or plant each of the fruit crops in 2011 and their intentions in the next five years. For all vineyards, there were 36 reports to remove acreage, and 88 reports to put in new plantings in 2011. Between now and 2016, there were 41 reports to remove acreage, and 129 reports of new planting intentions. Many producers indicated in comments that they were unsure of their one year and five year intentions at the time of the survey. A few larger firms that supplied acreage information did not provide a response to the intentions questions. No adjustments were made for those not responding or unsure of their intentions. Data users should evaluate the intentions information considering the factors mentioned above and consider the data shown minimum amounts.

Grapes: Future Acreage Intentions, Washington, January 1, 2011

Fruit	Intentions to remove or plant acreage			
	Intentions for 2011		Intentions for 2011-2016	
	Remove (acres)	New plantings (acres)	Remove (acres)	New plantings (acres)
Wine Grapes	100	999	177	3,319
Juice Grapes	100	280	216	740

Grapes: Production Not Harvested, Washington, January 1, 2011

Fruit	Quantity of grapes not harvested in 2010 due to:				
	Bird/Animal loss (tons)	Disease loss (tons)	Weather loss (tons)	Economic reasons (tons)	
Wine Grapes	351	1,916	556	93	
Juice Grapes	146	5,029	9	318	



Washington Field Office
 P.O. Box 609
 112 Henry St NE
 Olympia, WA 98507-0609
 Phone (800)435-5883, Fax(800)265-6275
nass-wa@nass.usda.gov

Grape & Tree Fruit Acreage Inventory by Variety Study January 1, 2011

Information is being gathered for an inventory of Washington fruit acreage by variety and rootstock as of January 1, 2011. Your voluntary response is needed for accurate estimates. All reports will be kept confidential. Survey results will be published and available to you on Internet or by mail.

Please make corrections to name, address, and zip code, if necessary.

1. Is the operation listed on the label known by any OTHER NAME?

() NO () YES - Secondary Name(s) _____

Office Use	
Segment	Tract
801	802

2. Are you involved as **THE OPERATOR** of fruit acreage under another operation name?

() NO - skip to item 3 () YES - enter information for other orchard(s) you operate below.

Operation Name	County	Total Acres of Fruit

3. Is there any other operator that could report the same acreage for the operation on the label?

() NO - Skip to item 4 () YES - Who might also report this acreage? _____

*Note: Information recorded in this questionnaire should be for the operation as printed or corrected on the label.
 Information for additional operations listed in item 2 should be reported on separate questionnaires.*

ACRES OPERATED – JANUARY 1, 2011

	Acres (Tenths)
4. Total Acres in Operation (include roads, waste areas, other crops, etc.).....	201 .____
5. Total Cropland	202 .____
6. Total Fruit Acreage (including grapes)	203 .____
7. Total acres certified in a Food Safety GAP program (eg. USDA GAP, GlobalG.A.P, SQF)?	200 .____

SUMMARY OF GRAPE & TREE FRUIT ACREAGE – JANUARY 1, 2011

8. Record the acres of fruit (excluding roads, waste areas, abandoned orchards/vineyards) to the nearest tenth acre.

TREE FRUIT	TOTAL ACRES (Tenths)		TREE FRUIT	TOTAL ACRES (Tenths)
Apples	204 .____		Nectarines	211 .____
Pears, Bartlett	205 .____		Plums/Prunes	212 .____
Pears, Winter	206 .____		Pluots	216 .____
Cherries, Sweet	207 .____		GRAPES	
Cherries, Tart	208 .____		Grapes, Wine	213 .____
Apricots	209 .____		Grapes, Juice	214 .____
Peaches	210 .____		Grapes, Table	215 .____

9. If total tree fruit acreage on this operation is less than 5 acres and total grape acreage is less than 1 acre, skip to *Survey Results* on p. 4, otherwise, continue to page 2.

INSTRUCTIONS FOR RECORDING DETAILED INFORMATION

Information should be recorded by COUNTY, BLOCK NAME, FRUIT TYPE, VARIETY, ROOTSTOCK (only for apples, cherries, and pears), YEAR PLANTED OR TOPWORKED, and AMERICAN VITICULTURAL AREA (for Wine Grapes). The reference date is January 1, 2011.

(Column 1. Optional) Record block name, for our reference.

(Column 2) The county where the fruit is located should be recorded for each fruit. Use a separate line for each variety, rootstock (for apples, cherries, and pears), and year planted or topworked.

(Columns 4 and 6) Record the type and variety of the fruit.

(Column 8) For wine grapes only, record the most definitive American Viticultural Area code for each block.

(Column 9) For apples, pears, and cherries, record the rootstock code.

(Column 10) Enter the year code of planting or year topworked for each line.

(Column 11) Record the acres of fruit (excluding roads, waste areas, abandoned orchards/vineyards) to the nearest tenth acre.

(Columns 12-13) Record the number of certified organic acres and transition to organic acres.

(Columns 14-15) Record the number of trees/vines for each line by bearing age and non-bearing age. The operator makes the determination in classifying trees/vines as bearing age. Exclude non-harvested pollenizers in tree count.

(Column 16-18) Provide this information only if the number of trees/vines in columns 14 and 15 are not reported. Record the percentage of acreage in the block that is of bearing age, and either the tree/vine density per acre or the block tree/vine spacing.

Include additional or clarifying information for unusual situations (irregular tree spacing patterns or interplant designs, multiple row plantings, etc.) in the comments section or on a separate enclosure.

Grape and Tree Fruit Acreage for

L I N E	1 Block Name (Optional)	2 County Name	3 County Code <i>Office Use Only</i>	4 Fruit Type	5 Fruit Code <i>Office Use Only</i>	6 Variety Name	7 Variety Code <i>Office Use Only</i>	8 American Viticultural Area Code [For wine grapes, enter the most definitive code from table above.] CODE	9 Rootstock Code [Record code only for apples, pears and cherries.] CODE	10 Year Planted/ Topworked Code [Enter code from table above] CODE
001		301		302		303	309	304	305	
002		301		302		303	309	304	305	
003		301		302		303	309	304	305	
004		301		302		303	309	304	305	
005		301		302		303	309	304	305	
006		301		302		303	309	304	305	
007		301		302		303	309	304	305	
008		301		302		303	309	304	305	
009		301		302		303	309	304	305	
010		301		302		303	309	304	305	

Fruit Type Codes for Column 5	American Viticultural Area Codes for Column 8	Rootstock Codes for Column 9	Year Codes for Column 10
420 Apples	1 Columbia Gorge	1 Dwarf	1 Prior to 1991
456 Pears, Bartlett	2 Columbia Valley	2 Semi-dwarf	2 1991-1995
457 Pear, Winter	3 Horse Heaven Hills	3 Standard	3 1996-2000
430 Cherries, Sweet	4 Puget Sound		4 2001-2005
432 Cherries, Tart	5 Rattlesnake Hills		5 2006
421 Apricots	6 Red Mountain		6 2007
450 Peaches	7 Wahluke Slope		7 2008
439 Nectarines	8 Walla Walla Valley		8 2009
449 Plums/Prunes	9 Yakima Valley		9 2010
141 Pluots	10 Snipes Mountain		
444 Grapes, Juice	11 Lake Chelan		
443 Grapes, Wine			
445 Grapes, Table			

Operation on Label - January 1, 2011

L I N E	11 Total Acres In Block (Tenths)	Organic		Number of Trees/Vines		Complete Only if Numbers of Trees/Vines are not Reported in Cols. 14 and 15		
		12 Certified Acres (Tenths)	13 Transition Acres (Tenths)	14 Number of Bearing Age Trees/Vines	15 Number of Non-Bearing Age Trees/Vines	16 Percent of Acres in Block that are of Bearing Age	17 Tree/Vine Planting Density in Block (Trees or vines/Acre)	Block Spacing 18 Distance Between Trees/Vines in Row And Distance Between Rows OR
001	306	310	311	307	308	312	313	ft. X ft.
002	306	310	311	307	308	312	313	ft. X ft.
003	306	310	311	307	308	312	313	ft. X ft.
004	306	310	311	307	308	312	313	ft. X ft.
005	306	310	311	307	308	312	313	ft. X ft.
006	306	310	311	307	308	312	313	ft. X ft.
007	306	310	311	307	308	312	313	ft. X ft.
008	306	310	311	307	308	312	313	ft. X ft.
009	306	310	311	307	308	312	313	ft. X ft.
010	306	310	311	307	308	312	313	ft. X ft.

Based on your current plan, please record your 1-year and 5-year plans to remove or plant acreage by fruit. (Record acres in tenths for each activity.)

FRUIT	Intentions to Topwork, Plant or Remove Acreage in 2011				Intentions to Topwork, Plant or Remove Acreage in the Next 5 Years		
	TOPWORK or REPLANT	REMOVE	NEW PLANTINGS		TOPWORK or REPLANT	REMOVE	NEW PLANTINGS
Apples	222 _____	223 _____	263 _____		235 _____	244 _____	253 _____
Pears, Bartlett	280 _____	224 _____	264 _____		236 _____	245 _____	254 _____
Pears, Winter	281 _____	225 _____	265 _____		237 _____	246 _____	255 _____
Cherries, Sweet	282 _____	226 _____	266 _____		238 _____	247 _____	256 _____
Cherries, Tart	283 _____	227 _____	267 _____		239 _____	248 _____	257 _____
Apricots	284 _____	228 _____	268 _____		240 _____	249 _____	258 _____
Peaches	285 _____	229 _____	269 _____		241 _____	250 _____	259 _____
Nectarines	286 _____	230 _____	270 _____		242 _____	251 _____	260 _____
Plums/Prunes	287 _____	231 _____	271 _____		243 _____	252 _____	261 _____
Pluots	275 _____	276 _____	277 _____		278 _____	279 _____	262 _____

FRUIT	Intentions in 2011		Intentions in the Next 5 Years		Quantity of Grapes Not Harvested in 2010 Due to:			
	Remove	New Plantings	Remove	New Plantings	Bird/Animal Loss (Tons)	Disease Loss (Tons)	Weather Loss (Tons)	Economic Reasons (Tons)
Grapes, Wine	232 _____	272 _____	217 _____	220 _____	291	294	297	288
Grapes, Juice	233 _____	273 _____	218 _____	221 _____	292	295	298	289
Grapes, Table	234 _____	274 _____	219 _____	300 _____	293	296	299	290

COMMENTS about unusual situations that would be helpful in understanding your operation would be appreciated.

SURVEY RESULTS

Thank you for completing the survey. Survey results will be available on the Internet at <http://www.nass.usda.gov/wa/>.

Would you rather receive a brief summary mailed to you at a later date? Yes N

If additional help is needed, please call (360)709-2400 or (800)435-5883.

099

Reported by _____ Date _____ Phone _____

Office Use						
R. Unit	Response	Respondent	Mode	Enum	Eval	Date
921	9901	9902	9903	098	100	9910 MM DD YY Date: _____
					POID for Additional Questionnaires	
S/E Name					789	

Respondent Booklet

2011 Grape and Fruit Tree Acreage Study

COUNTY CODES - Column 3

1 Adams
 3 Asotin
 5 Benton
 7 Chelan
 9 Clallam
 11 Clark
 13 Columbia
 15 Cowlitz
 17 Douglas
 19 Ferry
 21 Franklin
 23 Garfield
 25 Grant
 27 Grays Harbor
 29 Island
 31 Jefferson
 33 King
 35 Kitsap
 37 Kittitas
 39 Klickitat
 41 Lewis
 43 Lincoln
 45 Mason
 47 Okanogan
 49 Pacific
 51 Pend Oreille
 53 Pierce
 55 San Juan
 57 Skagit
 59 Skamania
 61 Snohomish
 63 Spokane
 65 Stevens
 67 Thurston
 69 Wahkiakum
 71 Walla Walla
 73 Whatcom
 75 Whitman
 77 Yakima

**FRUIT TYPE CODES –
Column 5**

420 Apples
 421 Apricots
 430 Cherries, Sweet
 432 Cherries, Tart
 444 Grapes, Juice
 443 Grapes, Wine

445 Grapes, Table
 439 Nectarines
 450 Peaches
 456 Pears, Bartlett
 457 Pears, Winter
 449 Plums & Prunes
 141 Pluots

VARIETY CODES - Column 7
APPLE VARIETIES

103 Akane
 104 Ambrosia
 105 Braeburn
 107 Cameo
 109 Chehalis
 111 Corland
 110 Crimson Gold
 149 Cripps Pink (Pink Lady)
 113 Criterion
 114 Earligold
 118 Early Fuji
 116 Elstar (Valstar)
 115 Empire
 112 Envy
 117 Fuji / Red Fuji
 102 Gala
 119 Ginger Gold
 121 Golden Delicious -
 (Standard)
 120 Golden Delicious -
 (Smoothee / Gibson)
 122 Golden Supreme
 123 Granny Smith
 125 Gravenstein
 127 Honeycrisp
 129 Idared
 130 Jazz
 131 Jonagold
 133 Jonathan (Ruby Jon)
 132 Kiku
 136 Lady Alice
 134 Liberty
 135 Lodi
 137 Macoun
 139 McIntosh
 141 Melrose
 142 Minneiska (SweeTango)
 143 Mutsu
 145 Newton
 147 Northern Spy

146 Opal
 148 Orin
 154 Pacific Rose
 150 Pinata
 151 Pinova
 158 Prime Gold
 152 Ramey York
 101 Red Delicious
 156 Rome (Red Rome)
 153 Sansa
 144 Sonya
 155 Spartan
 160 Sport
 157 Winesap
 159 Winter Banana
 161 Zester
 198 Other
 199 Not Reported

APRICOT VARIETIES

202 Blenheim
 221 Casselbrite
 220 Chinese
 201 Goldbar
 206 Goldcot
 203 Goldrich
 204 Goldstrike
 222 Moorpark
 207 Patterson
 209 Perfection
 210 Puget Gold
 211 Riland
 213 Rival
 215 Sun-glo
 217 Tilton
 219 Tomcot
 205 Wenatchee Moorpark
 298 Other
 299 Not Reported

CHERRY (All) VARIETIES		GRAPES, WINE VARIETIES	NECTARINE VARIETIES
301	Attika	920 Aligote	406 Arctic Glo
302	Balaton (Tart Cherry)	921 Aurore	402 Arctic Pride
304	Benton	922 Barbera	401 Arctic Queen
303	Bing (excl Sunset Bing)	923 Cabernet Franc	408 Arctic Rose
305	Black Republican	924 Cabernet Sauvignon	427 August Red
310	Black Tartarian	925 Campbell Early (Island Belle)	428 Autumn Red
306	Brooks	926 Carmenere	403 Bright Pearl
308	Casper	927 Cascade	429 Byrd
307	Chelan	928 Chardonnay	404 Crystal Rose
309	Chinook	929 Chasselas	416 Early Red
312	Cristalina	930 Chenin Blanc	430 Fairlane
332	Dnoex	931 Cinsaut	405 Fantasia
314	Early Robin	932 Cournoise	418 Fire Sweet
328	Index	933 Dolcetto	407 Firebrite
311	Lambert	934 Gamay Beaujolais	431 Fireburst
313	Lapins	935 Gamay Noir	432 First Red
320	Montgomery (Tart Cherry)	936 Gewurztraminer	433 Flame
315	Rainier	937 Golden Muscat	409 Flavortop
317	Regina	938 Grenache	442 Grand Pearl
319	Royal Ann	939 Joffre	444 HoneyKist
322	Sam	940 Lemberger	440 Honey Royal
324	Sandra Rose	941 Leon Milot	410 Independence
326	Santina	942 Madeline Angevine	434 Laurie Red
330	Schneider	943 Madeline Sylvaner	411 Red Gold
333	Selah (Liberty Bell)	944 Malbec	413 Scarlet Sun
321	Skeena	945 Marechal Fosh	435 September Red
323	Sonata	946 Merlot	436 Sparkling Red
339	Staccato	947 Mouverdre	412 Spring Brite
325	Stella	948 Mueller-Thurgau	414 Spring Diamond
334	Sumleta	949 Muscat Canelli	437 Summer Beaut
334	Sumnue	950 Muscat of Alexandria	417 Summer Blush
338	Sunset Bing	951 Muscat Ottonel	415 Summer Bright
327	Sweetheart	952 Nebbiolo	419 Summer Fire
329	Tieton	953 New York Muscat	438 Summer Grand
336	Ulster	954 Okanagan Riesling	439 Sunfree
331	Van	955 Orange Muscat	423 Sun Glo
337	Zing	956 Petit Verdot	421 Supreme Red
398	Other	957 Pinot Blanc	424 Sweet Scarlet
399	Not Reported	958 Pinot Gris	425 Western Pride
		959 Pinot Noir	443 Western Sweet
		960 Riesling	426 Zee Gold
		961 Rousanne	498 Other
		962 Royalty	499 Not Reported
GRAPES, JUICE VARIETIES			
901	Concord	963 Sangiovese	
902	Niagara	964 Sauvignon Blanc	
908	Other	965 Semillon	
909	Not Reported	966 Siegerrebe	
GRAPES, TABLE VARIETIES		967 Souzao	
915	Red Flame	968 Syrah	
916	Thompson Seedless	969 Tempranillo	
918	All Varieties	970 Tinta Madeira	
919	Not Reported	971 Tinto Cao	
		972 Touriga	
		973 Viognier	
		974 White Zinfandel	
		975 Zinfandel	
		998 Other	

PEACH VARIETIES		PLUM & PRUNE VARIETIES	
570	Allstar	541	Rich Lady
501	Angelus	542	Rio Oso Gem
571	Arctic Gern	543	Risingstar
510	August Lady	545	Roza
572	Avalon	547	Ryan Sun
573	Baby Gold 5	548	Saturn
574	Blazingstar	538	Scarlet Lady
502	Blushing Star	567	Siera Lady
532	Brendasun	549	Sierra Gem
575	Canadian Harmony	550	Snow Fire
576	Coral Star	551	Snow Giant
504	Cresthaven	553	Snow King
530	Crimson Lady	555	Snowbrite
508	David Sun	512	Starfire
503	Delta	557	Sugar Lady
505	Diamond Princess	559	Summer Lady
506	Donut	561	Summer Prince
507	Elberta	563	Summer Sweet
509	Elegant Lady	564	Suncrest
580	Encore	554	Sweet Dream
511	Fancy Lady	526	Tiffany Rose
513	Flamecrest	528	Veteran
514	Flaming Fury	540	White Hale
515	Flaborcrest	565	White Lady
552	Frost	567	Zee Lady
581	Glohaven	598	Other
517	Glory	599	Not Reported
582	Glowingstar	PEAR SUMMER/FALL VARIETIES	
516	Gold Medal	601	Bartlett
518	Golden Alberta	602	Red Bartlett
583	Golden Jubilee	603	Red Sensation
584	Goldnine (Arkansas9)	604	Starkrimson
519	Hale	606	Tosca
521	John Henry	698	Other
534	June Lady	699	Not Reported
520	July Sun	PEAR (WINTER) VARIETIES	
523	June Pride	701	Asian
524	Jupiter	703	Bosc
525	Lady Nancy	720	Bosc, Golden
585	Loring	704	Cascade
586	M A Blake	705	Comice
587	Madison	707	Concord
588	Newhaven	709	D'Anjou
527	NJ252	711	D'Anjou, Red
529	O'Henry	712	Kalle
531	PF series (PF Lucky 13)	713	Packham
590	Red Freemont	715	Red Clapp
589	Red Freemont	717	Seckel
533	Red Glove	719	Taylor Gold
535	Red Haven	798	Other
591	Red Lady	799	Not Reported
536	Red Top	PLUOT VARIETIES	
592	Redglobe	PLUOT VARIETIES	
593	Redskin	860	Crimson Sweet
594	Redstar	861	Dapple Dandy
537	Regal	862	Early Dapple
539	Regina	863	Emerald Drop
		864	Flavor Delight
		865	Flavor Fall
		866	Flavor Finale
		867	Flavor Grenade
		868	Flavor Heart
		869	Flavor Jewel
		870	Flavor King
		871	Flavor Prince
		872	Flavor Queen
		873	Flavor Rich
		874	Flavor Royal
		875	Flavor Supreme
		876	Flavorich
		877	Flavorosa
		878	Geo Prode
		879	Raspberry Jewel
		880	Red Ray
		881	Splash
		882	Sweet Treat
		883	Tropical Plumana
		888	Other
		889	Not Reported

**AMERICAN VITICULTURAL
AREA CODES - Column 8**

- 1 Columbia Gorge
- 2 Columbia Valley
- 3 Horse Haven Hills
- 4 Puget Sound
- 5 Rattlesnake Hills
- 6 Red Mountain
- 7 Wahluke Slope
- 8 Walla Walla Valley
- 9 Yakima Valley
- 10 Snipes Mountain
- 11 Lake Chelan

**ROOTSTOCK CODES FOR
APPLES, PEARS AND
CHERRIES - Column 9**

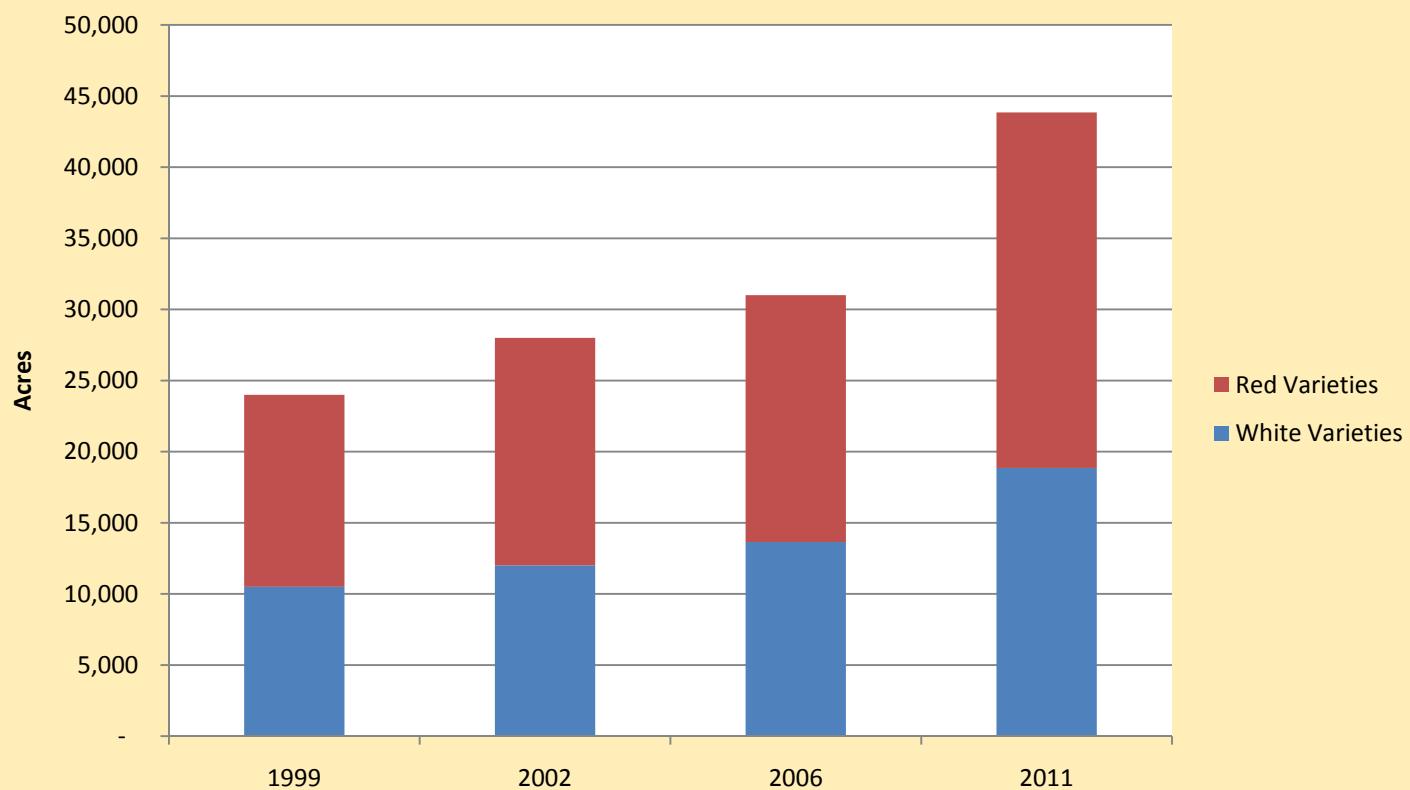
- 1 Dwarf
- 2 Semi-dwarf
- 3 Standard

YEAR CODES - Column 10

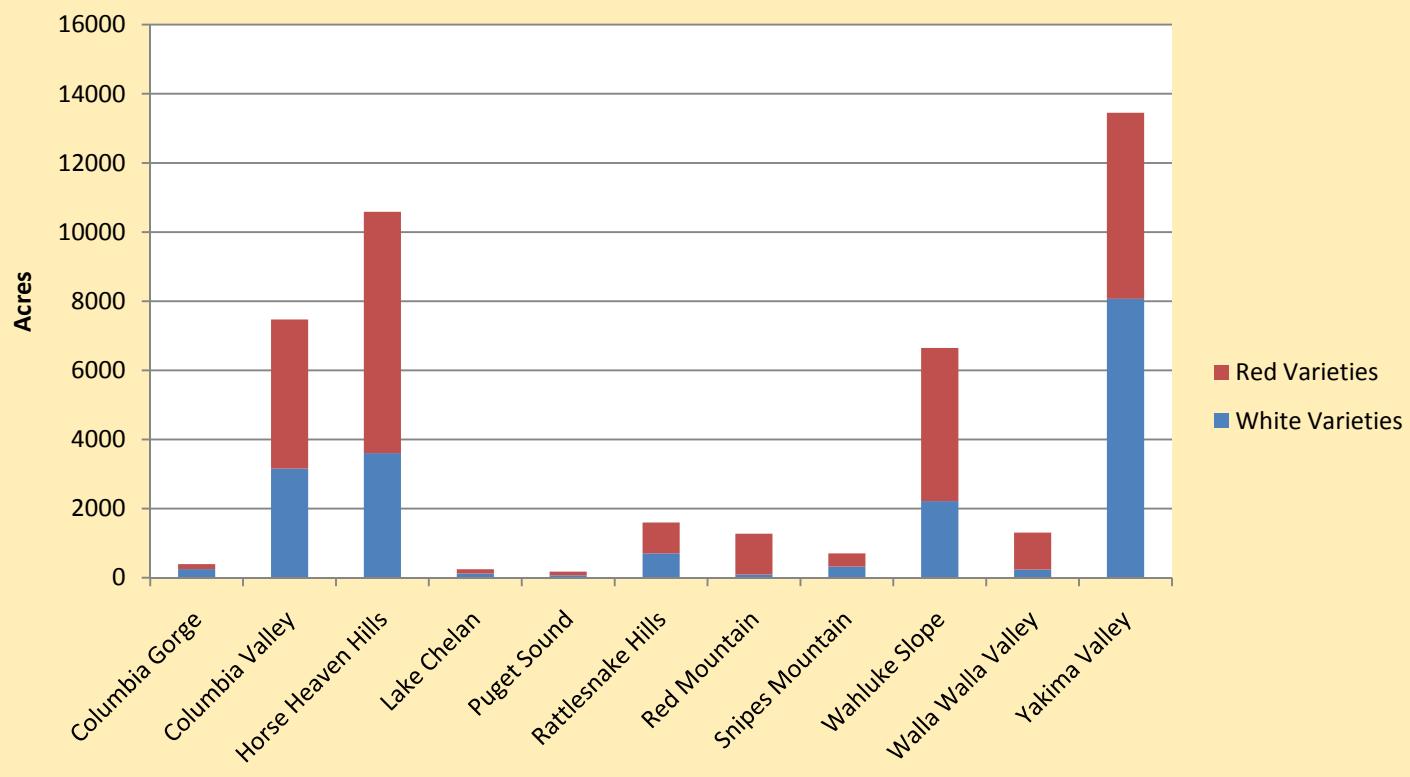
- 1 Prior to 1991
- 2 1991-1995
- 3 1996-2000
- 4 2001-2005
- 5 2006
- 6 2007
- 7 2008
- 8 2009
- 9 2010

Wine Grape Acreage Charts

Wine Grapes: Acres by Color, 1999 - 2011

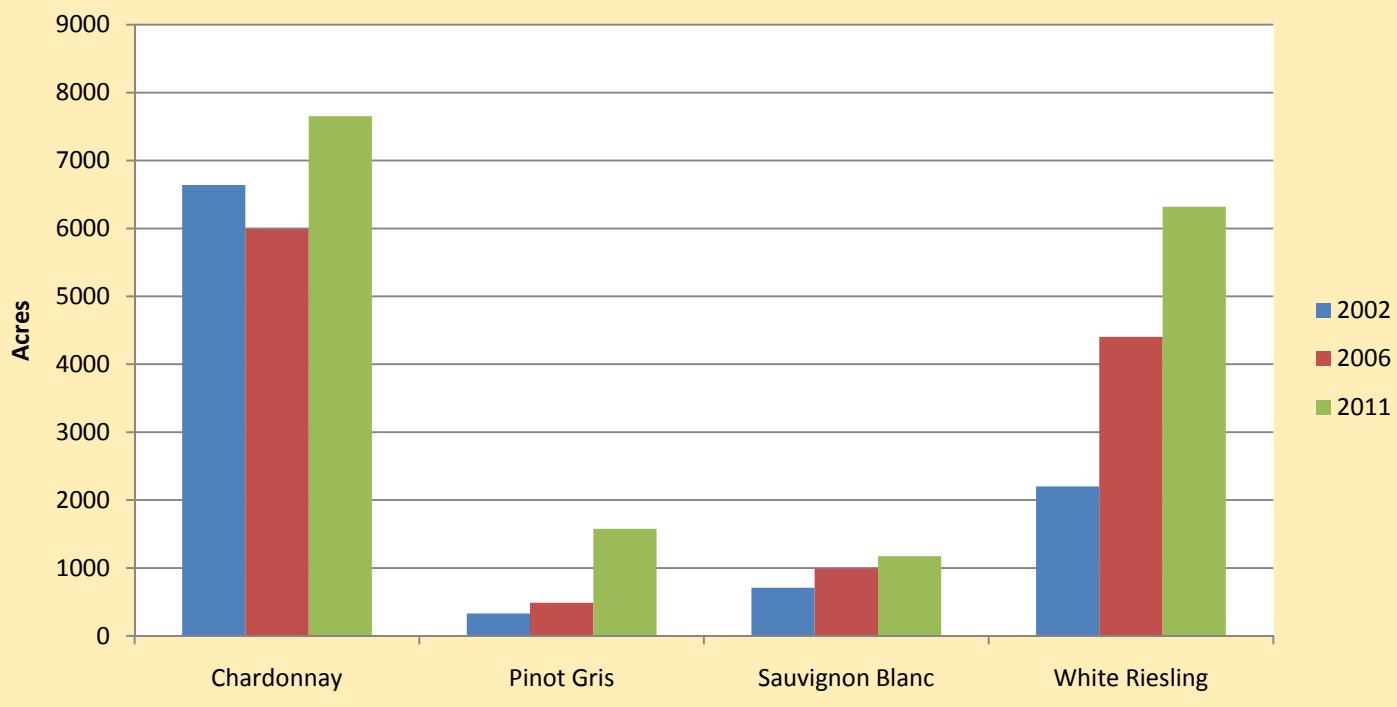


Wine Grapes: Acres by AVA, 2011



Wine Grape Acreage Charts

Wine Grapes: Selected White Varieties, 2002 - 2011



Wine Grapes: Selected Red Varieties, 2002 - 2011

